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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/082,065 02/26/2002 PULOI Boris Iv. Basok 2684 EXAMINER 01/14/2005 7590 Daniel M Kennedy MADSEN, ROBERT A 10105 Burton Glen Drive ART UNIT PAPER NUMBER Rockville, MD 20850

1761

DATE MAILED: 01/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
055	10/082,065	BASOK ET AL.
Office Action Summary	Examiner	Art Unit
	Robert Madsen	1761
Th MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 09 N	lovember 2004	
	s action is non-final.	
<u>—</u>		secution as to the merits is
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
_		
4) Claim(s) 1-12 is/are pending in the application.		
4a) Of the above claim(s) <u>5-11</u> is/are withdraw	n from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) <u>1-4,12</u> are subject to restriction and/o	or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examine	er.	
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. & 119(a)	u-(d) or (f)
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority document		on No
3.☐ Copies of the certified copies of the prior		
application from the International Burea	-	
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ed.
Attachmont(a)		
Attachment(s) 1) Notice of References Cited (PTO-892)	. 4) Interview Summary	(PTO.413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	5) Notice of Informal P 6) Other:	atent Application (PTO-152)

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DETAILED ACTION

1. The Amendment filed November 9,2004 has been entered. Claims 1-12 are currently pending with claims 5-11 being withdrawn from further consideration as being drawn to a non-elected species.

Election/Restrictions

- 2. The originally filed claims were directed to the genus of applying energy to create a homogeneous composition and the following species of "energy":
 - (a) short pulse
 - (b) pressure drop
 - (c) shearing stress
 - (d) adiabatic boil
 - (e) hydraulic energy
 - (f) electromagnetic wave
- 3. Now the currently amended claims are directed to the following patentably distinct species of "discrete short pulses of energy" of the claimed invention:
 - (a) pressure change
 - (b) adiabatic flashing
 - (c) hydraulic impact
 - (d) pressure shock wave
 - (e) shear stress
 - (f) local turbulence

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(e) cavitation

- 4. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.
- 5. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.
- 6. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).
- 7. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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Specification and Claims

8. To expedite prosecution, it is noted that the originally filed application is non-enabling for "discrete short pulses" in the currently amended claims 3 and 12 and the currently amended "... short pulses of a given frequency ..." on Paragraph 5 of Page 3 under the Summary of the Invention and the Abstract. The term "short pulse" was not disclosed in the originally filed application as being "of a given frequency" in the original specification, including the abstract, or original claims 2 and 12. Furthermore, the term "short" is a relative term and is found indefinite since the originally filed application failed to define "short pulses". However, the originally filed application is enabling for "pulses of energy at a given frequency".

Conclusion

- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Madsen whose telephone number is (571) 272-1402. The examiner can normally be reached on 7:00AM-3:30PM M-F.
- 10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on (571) 272-1398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert Madsen

Examiner
Art Unit 1761